

2013 UDOT RESEARCH PROBLEM STATEMENT

*** Problem statement deadline is March 25, 2013. Submit statements to Steve Bagley at sbagley@utah.gov ***

Problem Title: I-15 HOT Lanes Study

No. UT-13.03.19

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UDOT Champion (suggested):

Select a Subject Area

☐ Materials/Pavements

☐ Maintenance

☒ Traffic Mgmt/Safety

☐ Geotechnical

☐ Preconstruction

☐ Planning/Asset Mgmt

☐ Transportation Innovation

1. Describe the problem to be addressed.

The toll on I-15 may be too low to provide a better level of service than the adjacent general purpose lanes. Operational costs may be also lower than current revenue. A study is needed to recommend adjustments to the toll and services based on current and future projects.

2. Describe why this research is important and how it is unique.

This study will provide an analysis and recommendations for toll adjustments and additional services.

3. List the research objective(s) to be accomplished:

1. Analyze toll rates for current and future projections.
2. Recommend additional services for HOT lane usage.

4. List the major tasks to accomplish the research objective(s):

1. Analysis of current toll rates and cost burden.
2. Sensitivity analysis of performance factors.
3. Survey of additional services relevant to HOT/HOV infrastructure.

5. List the deliverable(s) to come to UDOT from this research study:

1. Sensitivity (performance vs cost) tool.
2. Recommendations.

6. Describe how the results of this study will be implemented at UDOT.

Recommendations will be used to adjust toll rates and/or provide additional services.

7. Estimated cost - Total: \$25000

UDOT Share: \$25000

Other/Matching Funds: \$

8. Outline the proposed schedule for this study, including estimated start date, duration, and major event dates.

This will be an 6-8 month study.